



Advantages in Corrosion

Protection

The SprayWall® Product was designed to address the numerous problems which can be experienced within the infrastructure of a sewer system and is meant to deliver the "state of the art" method in Corrosion Protection. A few of the design considerations and the advantages offered with the SprayWall® System are as follows:

- 1 Knowing the tremendous costs associated with bypass pumping and the importance of quickly completing the corrosion protection of a structure, SprayWall® was designed to generate an initial cure in eight (8) seconds. This means as soon as the designed thickness of material has been applied, flow can be re-established. The result is quite a savings in time to the application and therefore a savings in cost to the authority. We also believe it is extremely important to spray all parts of a manhole including the bench and invert areas to insure the lining is monolithic.
- 2 The corrosion and abrasion resisting characteristics of SprayWall® insures the manhole or structure will not be deteriorated in the future by the elements that attack cementitious surfaces.
- 3 SprayWall is based on a fifty (50) year design meaning the stresses associated with the creep phenomena will only affect the material strengths at the rate of 25% and not the 50% as associated with products developed with epoxies and polyesters. In other words "*Twice as Strong, Twice as Long*".
- 4 SprayWall® is one product capable of being designed and applied to virtually any thickness during the initial installation process. No laminations are created and no secondary mobilizations are required to achieve the designed thickness.



SprayWall[®] is a two component, 100% solids, rigid polyurethane system capable of being spray applied to structures

having multiple configurations. Exposure to severe environments necessitates this product be resistant to corrosion and abrasion. The thickness of this product can be modified to either structurally support the hydraulic load generated by a high water table or simply offer a corrosion barrier.

PHYSICAL PROPERTIES

Density (pcf)
Hardness, Shore D
Tensile Strength, psi
% Elongation at break
Flexural strength, psi
Flexural modulus, psi

ED-1100 "A" COMPONENT PHYSICAL PROPERTIES

Appearance
Specific gravity at 25° C
Viscosity cps, at 25° C

ED-2103 "B" COMPONENT PHYSICAL PROPERTIES

Appearance
Specific gravity at 25° C
Viscosity cps, at 25° C

PROCESSING RECOMMENDATIONS FOR ED-2103

"A" component temperature
"B" component temperature
Ratio by weight

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Gasoline, Unleaded
5% Methanol/Gasoline
Diesel Fuel
Jet Fuel (Jet-A, JP-5, JP-8)
Hexane
Hydraulic Oil
Kerosene K1
Methanol
Brake Fluid
Motor Oil
Flexural

A
A
A
A
A
A
A
B
B



Chemical Resistance

Chemical Code for Chemical's Effect on SprayWall

(B)

Density (pcf)
Hardness, Shore D
Tensile Strength, psi
% Elongation at break
Flexural strength, psi
Flexural modulus, psi

ED-1100 "A" COMPONENT PHYSICAL PROPERTIES

Appearance
Specific gravity at 25° C
Viscosity cps, at 25° C

ED-2103 "B" COMPONENT PHYSICAL PROPERTIES

Appearance

D-Limonene A Mineral Spirits A Benzene A Styrene A Toluene A Xylene A Ethylbenzene A
Perchloroethylene A Propylene Carbonate C Ethylene Chloride 10% C* Benzol Alcohol B3
Benzoyl Chloride Acetone NR Dimethyl Formamide NR M-Pyrol (methyl pyrrolidone) NR

Tap Water A Hot Tub Water 3 A1 Acetic Acid 40% A Vinegar 5% A Muriatic Acid (31.5% HCl)
10%-50% A Nitric Acid (63%) 10%-50% A Sulfuric Acid 5%-40% A Sodium Hydroxide 5%-50% A
Sodium Hypochlorite (Clorox) 10% C2

Huntingdon

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Project: Tensile and Flexure Tests

PROJECT INFORMATION

Technician: M. Hendricks, G. Prewett Date of Test: December 30, 1994 Procedure: ASTM D 638, D 790 Material: Ten -prepared polyurethane test specimens Identification: See below Date Received: December 28, 1994 Specifications: N/A Test Equipment: Instron 4507, SIN H1963

TENSION TEST RESULTS

Area Tensile Strength, %E, Specimen ID Dimensions.in. sQ.in. Total Load.lbf
psi (2") 1 0.103x0.470 0.048 391.2 8080 1.65 2 0.118x0.467 0.055 427.8 7763 2;02 3
0.098x0.472 0.046 346.2 7484 1.26 4 0.116x0.468 0.054 420.6 7748 1.43 5 0.102x0.470 0.048
377.2 7868 1.48

FLEXURAL STRENGTH TEST RESULTS

Density (pcf)
Hardness, Shore D
Tensile Strength, psi
% Elongation at break
Flexural strength, psi
Flexural modulus, psi

ED-1100 "A" COMPONENT PHYSICAL PROPERTIES

Appearance